

ENTERED

See P. 6



PCT10

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/088,966

DATE: 08/06/2002
TIME: 14:10:11

Input Set : A:\216180.ST25.txt
Output Set: N:\CRF3\08062002\J088966.raw

3 <110> APPLICANT: BioteCon Diagnostics GmbH
5 <120> TITLE OF INVENTION: Nucleic acid molecules for the detection of bacteria
6 and phylogenetic units of bacteria
8 <130> FILE REFERENCE: 216180
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/088,966
11 <141> CURRENT FILING DATE: 2002-03-22
13 <150> PRIOR APPLICATION NUMBER: PCT/EP00/08813
14 <151> PRIOR FILING DATE: 2000-09-08
16 <150> PRIOR APPLICATION NUMBER: DE 19945916.9
17 <151> PRIOR FILING DATE: 1999-09-24
19 <160> NUMBER OF SEQ ID NOS: 530
21 <170> SOFTWARE: PatentIn Ver. 2.1
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 3118
25 <212> TYPE: DNA
26 <213> ORGANISM: Escherichia coli
28 <400> SEQUENCE: 1
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30 ctaatctgcg ataagctcg gtaaggtgat atgaaccgtt ataaccggcg atttccgaat 120
31 gggaaaccc agtgtgttc gacacactat cattaactga atccataggt taatgaggcg 180
32 aaccggggga actgaaacat ctaagtaccc cgaggaaaag aaatcaaccg agattcccc 240
33 agtagcggcg agcgaacggg gacgagccca gaggctgaat cagtgtgtgt gtttagtgaa 300
34 gcgtctggaa aggctgtcga tacagggtga cagcccgta cacaaaaatg cacatgtgt 360
35 gagctcgatg agtagggcgg gacacgtggt atcctgtctg aatatgggg gaccatc 420
36 caaggctaaa tactcctgac tgaccgatag tgaaccgatg ccgtgaggga aaqr 480
37 gaaccccgcc gagggggatg aaaaagaacc taaaaccgtg tacgtacaag cayi 540
38 acgttaggc gtgtgactgc gtacctttt tataatgggt cagcgactta tattctgttag 600
39 caaggttaac cgaatagggg agccgaaggg aaaccgagtc ttaactgggc gttaaattgc 660
40 aggtataga cccgaaaccc ggtgatctag ccatggcag gttgaagggtt ggttaacact 720
41 aactggagga cccgaaaccgac taatgttcaa aaattagcgg atgacttggt gctgggggtg 780
42 aaaggccaat cccgaaaccggaa gatacgctgt tctcccccggaa agctatttag gtagccctc 840
43 gtgaattcat ctccgggggt agacgactgt ttccggcaagg ggtcatccc gacttaccaa 900
44 cccgatgcaa actgcgaaata cccggagaatg ttatcaccgg agacacacgg cgggtgctaa 960
45 cgtccgtcgt gaagaggaa acaacccaga cccggcagcta aggtcccaa gtcattgtt 1020
46 agtggaaac gatgtggaa gcccagaca gccaggatgt tggcttagaa gcagccatca 1080
47 tttaaagaaa gcttaatagc tcactggcg agtcggcctg cgcggaaagat gtaacggggc 1140
48 taaaccatgc accgaagctg cggcagcgcac actatgttt gttgggttagg ggagcgttct 1200
49 gtaagcctgt gaaggtgtgc tggaggcat gctggaggta tcagaagtgc gaatgctgac 1260
50 ataagtaacg ataaagcggg taaaagccc gtcggccgaa agaccaaggg ttccctgtcca 1320
51 acgttaatcg gggcagggtg agtcgacccc taaggcgagg cccggaaaggcg tagtgcgttgg 1380
52 gaaacaggtt aatattcctg tactgggtt tactgcgaa gggggacggg gaaggctatg 1440
53 ttggccgggc gacgggtgtc ccgggttaag cgttaggtt ggtttccag gcaaatccgg 1500
54 aaaatcaagg ctgaggcgtg atgacgaggc actacgggtc tgaagcaaca aatgcctgc 1560

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55 ttccaggaaa agccctctaag catcaggtaa catcaaatcg taccggaaac cgacacaggt 1620
 56 ggtcaggtag agaataccaa ggcgcttgag agaactcggg tgaaggaact aggcaaaatg 1680
 57 gtggcgtaac ttcgggagaa ggcacgctga tatgtaggtg aagcgacttg ctcgtggagc 1740
 58 taaaatcagt cgaagatacc agctggctgc aactgtttat taaaacaca gcaactgtca 1800
 59 aacacgaaag tggacgtata cgggtgtacg cctggccgg gccggaaggt taattgatgg 1860
 60 ggttagccgc aaggcgaagc tcttgatcg agccccggta aacggcggcc gtaactataa 1920
 61 cggtcctaag gtagcgaaat tccttgcgg gtaagttccg acctgcacga atggcgtaat 1980
 62 gatggccagg ctgtctccac cggagactca gtgaaattga actcgctgtg aagatgcagt 2040
 63 gtaccccggg caagacgaa agaccccggt aacccttact atagcttgac actgaacatt 2100
 64 gagccttgcgt gtgttaggata ggtggggaggc tttgaagtgt ggacgcccagt ctgcatggag 2160
 65 ccgacccctgaaataccaccc tttatgttt gatgttctaa cgttgacccg taatccgggt 2220
 66 tgcggacagt gtctgggtgg tagtttact ggggcgggtct cctcttaaag agtaacggag 2280
 67 gagcacgaaag gttggctaat cctgggtcgga catcaggagg ttatgtcaat ggcataagcc 2340
 68 agcttgactg cgagcgtgac ggcgcgagca ggtgcgaaag cagtcatag tgatccgggt 2400
 69 gtttgcataatgaaaggccat cgctcaacgg ataaaaggtt ctcggggat aacaggctga 2460
 70 taccggcccaa gagttcatat cgacggcggt tttggcacc tcatgtgtcggt ctcatcacat 2520
 71 cctggggctgaaatgttcc caagggtatg gctgttgcgc atttaaagtg gtacgcgagc 2580
 72 tgggtttagaa acgtcgtgac acagttcggt ccctatctgc cgtggggcgt ggagaactga 2640
 73 ggggggctgc tccttagtacg agaggaccgg agtggacgca tcactgggtgt tcgggttgtc 2700
 74 atgccaatgg cactgcccgg tagctaaatg cggaaagagat aatgtctgaa agcatctaag 2760
 75 cacgaaactt gccccgagat gagttctccc tgactccctg agagtcctga aggaacgtt 2820
 76 aagacgacga cggtgatagg ccgggtgtgt aagcgcagcg atgcgttgcg ctaaccggta 2880
 77 ctaatgaacc gtgaggctt accttacaac gccgaaggtg tttggcggg ttgagagaag 2940
 78 atttcagcc tgatacagat taaatcagaa cgcagaagcg gtctgataaa acagaattt 3000
 79 cctggcggca gtagcgcggt ggtcccacct gacccatgc cgaactcaga agtggaaacgc 3060
 80 cgtagcggccg atggtagtgtt ggggtctcct catgcgagag tagggaaactg ccaggcat 3118
 83 <210> SEQ ID NO: 2
 84 <211> LENGTH: 20
 85 <212> TYPE: DNA
 86 <213> ORGANISM: Artificial sequence
 88 <220> FEATURE:
 89 <223> OTHER INFORMATION: Description of the artificial sequence: derived
 90 from genera of enterobacteria
 92 <400> SEQUENCE: 2
 93 ttcgggttgt catgccaatg 20
 96 <210> SEQ ID NO: 3
 97 <211> LENGTH: 26
 98 <212> TYPE: DNA
 99 <213> ORGANISM: Artificial sequence
 101 <220> FEATURE:
 102 <223> OTHER INFORMATION: Description of the artificial sequence: derived
 103 from genera of enterobacteria
 105 <400> SEQUENCE: 3
 106 ctgaaagcat ctaagcgcga aacttg 26
 109 <210> SEQ ID NO: 4
 110 <211> LENGTH: 26
 111 <212> TYPE: DNA
 112 <213> ORGANISM: Artificial sequence
 114 <220> FEATURE:

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115 <223> OTHER INFORMATION: Description of the artificial sequence: derived
116 from genera of enterobacteria
118 <400> SEQUENCE: 4
119 ctgaaagcat ctaagcggga aacttg 26
122 <210> SEQ ID NO: 5
123 <211> LENGTH: 26
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Description of the artificial sequence: derived
129 from genera of enterobacteria
131 <400> SEQUENCE: 5
132 ctgaaagcat ctaagcacga aacttg 26
135 <210> SEQ ID NO: 6
136 <211> LENGTH: 26
137 <212> TYPE: DNA
138 <213> ORGANISM: Artificial sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: Description of the artificial sequence: derived
142 from genera of enterobacteria
144 <400> SEQUENCE: 6
145 ctgaaagcat ctaagcagga aacttg 26
148 <210> SEQ ID NO: 7
149 <211> LENGTH: 25
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Description of the artificial sequence: derived
155 from genera of enterobacteria
157 <400> SEQUENCE: 7
158 gggaggactc atctcgaggc aagtt 25
161 <210> SEQ ID NO: 8
162 <211> LENGTH: 25
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Description of the artificial sequence: derived
168 from genera of enterobacteria
170 <400> SEQUENCE: 8
171 gggaggactc atctcggggc aagtt 25
174 <210> SEQ ID NO: 9
175 <211> LENGTH: 25
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of the artificial sequence: derived
181 from genera of enterobacteria
183 <400> SEQUENCE: 9
184 gggaggactc atctcaaggc aagtt 25

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Input Set : A:\216180.ST25.txt
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187 <210> SEQ ID NO: 10
188 <211> LENGTH: 25
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Description of the artificial sequence: derived
194 from genera of enterobacteria
196 <400> SEQUENCE: 10
197 gggaggactc atctcaggc aagtt 25
200 <210> SEQ ID NO: 11
201 <211> LENGTH: 25
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial sequence
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Description of the artificial sequence: derived
207 from genera of enterobacteria
209 <400> SEQUENCE: 11
210 gggaggactc atcttgggc aagtt 25
213 <210> SEQ ID NO: 12
214 <211> LENGTH: 25
215 <212> TYPE: DNA
216 <213> ORGANISM: Artificial sequence
218 <220> FEATURE:
219 <223> OTHER INFORMATION: Description of the artificial sequence: derived
220 from genera of enterobacteria
222 <400> SEQUENCE: 12
223 gggaggactc atcttgggc aagtt 25
226 <210> SEQ ID NO: 13
227 <211> LENGTH: 25
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: Description of the artificial sequence: derived
233 from genera of enterobacteria
235 <400> SEQUENCE: 13
236 gggaggactc atcttaaggc aagtt 25
239 <210> SEQ ID NO: 14
240 <211> LENGTH: 25
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: Description of the artificial sequence: derived
246 from genera of enterobacteria
248 <400> SEQUENCE: 14
249 gggaggactc atcttagggc aagtt 25
252 <210> SEQ ID NO: 15
253 <211> LENGTH: 25
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial sequence

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257 <220> FEATURE:
258 <223> OTHER INFORMATION: Description of the artificial sequence: derived
259 from genera of enterobacteria
261 <400> SEQUENCE: 15
262 gggagaactc atctcgaggc aagtt 25
265 <210> SEQ ID NO: 16
266 <211> LENGTH: 25
267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: Description of the artificial sequence: derived
272 from genera of enterobacteria
274 <400> SEQUENCE: 16
275 gggagaactc atctcggggc aagtt 25
278 <210> SEQ ID NO: 17
279 <211> LENGTH: 25
280 <212> TYPE: DNA
281 <213> ORGANISM: Artificial sequence
283 <220> FEATURE:
284 <223> OTHER INFORMATION: Description of the artificial sequence: derived
285 from genera of enterobacteria
287 <400> SEQUENCE: 17
288 gggagaactc atctcaaggc aagtt 25
291 <210> SEQ ID NO: 18
292 <211> LENGTH: 25
293 <212> TYPE: DNA
294 <213> ORGANISM: Artificial sequence
296 <220> FEATURE:
297 <223> OTHER INFORMATION: Description of the artificial sequence: derived
298 from genera of enterobacteria
300 <400> SEQUENCE: 18
301 gggagaactc atctcagggc aagtt 25
304 <210> SEQ ID NO: 19
305 <211> LENGTH: 25
306 <212> TYPE: DNA
307 <213> ORGANISM: Artificial sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Description of the artificial sequence: derived
311 from genera of enterobacteria
313 <400> SEQUENCE: 19
314 gggagaactc atcttgaggc aagtt 25
317 <210> SEQ ID NO: 20
318 <211> LENGTH: 25
319 <212> TYPE: DNA
320 <213> ORGANISM: Artificial sequence
322 <220> FEATURE:
323 <223> OTHER INFORMATION: Description of the artificial sequence: derived
324 from genera of enterobacteria
326 <400> SEQUENCE: 20

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/088,966

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Input Set : A:\216180.ST25.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:108; N Pos. 29,61,179
Seq#:110; N Pos. 55
Seq#:118; N Pos. 95
Seq#:123; N Pos. 20
Seq#:129; N Pos. 55,112
Seq#:165; N Pos. 14,15,16
Seq#:205; N Pos. 28
Seq#:218; N Pos. 18
Seq#:244; N Pos. 14
Seq#:245; N Pos. 14
Seq#:247; N Pos. 34
Seq#:257; N Pos. 21
Seq#:281; N Pos. 36
Seq#:353; N Pos. 18,20
Seq#:370; N Pos. 37
Seq#:445; N Pos. 202
Seq#:462; N Pos. 74,82
Seq#:525; N Pos. 114

VERIFICATION SUMMARY
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L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:1360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108 after pos.:0
L:1361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108 after pos.:60
L:1362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108 after pos.:120
L:1396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:0
L:1486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118 after pos.:60
L:1542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:0
L:1617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129 after pos.:0
L:1618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129 after pos.:60
L:1982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:165 after pos.:0
L:2391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:205 after pos.:0
L:2558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:218 after pos.:0
L:2806 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:244 after pos.:0
L:2821 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245 after pos.:0
L:2845 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:247 after pos.:0
L:2949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:257 after pos.:0
L:3179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:281 after pos.:0
L:3873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:353 after pos.:0
L:4040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:370 after pos.:0
L:4786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:445 after pos.:180
L:4984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:462 after pos.:60
L:5626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:525 after pos.:60